## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



## 

(43) International Publication Date 23 October 2003 (23.10.2003)

PCT

## (10) International Publication Number WO 03/086448 A1

(51) International Patent Classification7: 39/395, 38/08, A61P 13/12, 9/10, 11/00

A61K 38/04,

(21) International Application Number: PCT/AU03/00415

(22) International Filing Date: 7 April 2003 (07.04.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PS 1606

8 April 2002 (08.04.2002) At

- (71) Applicant (for all designated States except US):
  PROMICS PTY LIMITED [AU/AU]; BUILDING
  64, PHYSIOLOGY & PHARMACOLOGY DEPT, UNIVERSITY OF QUEENSLAND, ST LUCIA, Queensland
  4072 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): TAYLOR, Stephen, Maxwell [AU/AU]; 17 Perdita Street, Bellbird Park, Queensland 4300 (AU). SHIELS, Ian, Alexander [AU/AU]; 17 Sherlock Road, Muirlea Road, Muirlea, Queensland 4306 (AU). BROWN, Lindsay, Charles

[AU/AU]; 31 Glen Ross Road, Sinnamon Park, Queensland 4073 (AU).

- (74) Agent: GRIFFITH HACK; 509 St Kilda Road, Mclbourne, Victoria 3004 (AU).
- (81) Designated States (inational): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PI, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF C5A RECEPTOR ANTAGONIST IN THE TREATMENT OF FIBROSIS

(57) Abstract: This invention relates to the use of an antagonist of a G protein-coupled receptor in the prevention and/or treatment of fibrosis, such as the treatment of fibrosis associated with myocardial infarction or diabetes or certain pulmonary conditions. In a preferred embodiment the antagonist is a C5a receptor antagonist, more preferably a cyclic peptide antagonist of the C5a receptor. In particular the invention provides a method of prevention, treatment or alleviation of a fibrotic condition, comprising the step of administering an effective amount of an antagonist of a G protein-coupled receptor to a subject in need of such treatment.